

Exhibitor short talk sessions

Date	Tuesday, 19 March 2024	Wednesday, 20 March 2024	Thursday, 21 March 2024
Time	Floor 1 exhibitor stage	Floor 1 exhibitor stage	Floor 1 exhibitor stage
13:15-13:35	Fast Track Development of Biphasic nano Dexamethasone Pellets using galenIQ™ Michael Black, BENEIO GmbH, Germany	Product Characterization Database and KPIs – Insights and Evaluation of CPEs Rebekka Spellerberg, Meggle GmbH & Co KG, Germany	Hyaluronic Nanogel: Facile Fabrication for Solubilization, SR and Vaccine Applications Takeru Kurosawa, Asahi Kasei Corporation, Japan
13:35-13:55	Embrace the Future of Modern Formulation with L-HPC! Shingo Kikuchi, Shin-Etsu, Japan	Powder Compaction Analysis, USP <1062> and the Gamlen D-Series Rebecca McVicker, Gamlen Tableting Ltd., United Kingdom	What's next in ATMP manufacturing? Elke Sternberger-Rützel, Harro Höfliger, Germany
13:55-14:15	Dissolution testing of challenging formulations Karen Krauel-Göllner, Agilent Technologies, Switzerland	Comprehensive particle and dispersion analysis for pharmaceutical formulations by MULTI-STEP-Analysis Stefan Küchler, LUM GmbH, Germany	EUDRACAP® from preclinical to commercial – how functional ready-to-fill capsules can support pharmaceutical developments from non-clinical to clinical stages Lucas Cusin, Evonik Industries AG, Germany
14:15-14:35	Development of topical drug products Pieterjan Merckx, Purna Pharmaceuticals NV, Belgium	Hot melt Extrusion: Downstream Options for ASD Formulations Dirk Leister, Thermo Fisher Scientific, Germany	Powder flow characterization to meet continuous manufacturing challenges Filip Francqui, Granutools, Belgium
14:35-14:55			RNA & MAP - Combining Breakthrough Innovations Markus Winterberg, LTS Lohmann Therapie-Systeme AG, Germany



SCIENTIFIC PROGRAMME AT A GLANCE, MONDAY - THURSDAY, 18 - 21 MARCH 2024


MONDAY, 18 MARCH 2024

	Floor 0 & Floor 1 Late breaking abstracts and ResearchPharm®	Hall A	
13:00		<p>Opening ceremony Joerg Breitreutz, University of Düsseldorf, Germany Lea Ann Dailey, University of Vienna, Austria Paola Minghetti, University of Milan, Italy Juergen Siepmann, University of Lille, France</p> <p>Key note lecture: From graduate student to research scientist - moving a technology to commercialization: KinetiSol Dispersing Bill Williams, University of Texas, USA</p>	13:00
13:45			13:45
	14:45 - 15:30 ResearchPharm® International Exhibition for R&D	Floor 0 & Floor 1: Coffee break and ResearchPharm®	
	Floor 0 & Floor 1 Late breaking abstracts and ResearchPharm®	Hall A Invited talks: Hot topic session	
15:30		Challenges with Ex-Vivo CAR-T cell therapies and outlook into next generation In-Vivo concepts Sabine Desset-Brethes, Novartis, Switzerland	15:30
16:10		Sustainability challenges and solutions over the life-cycle of medicines Tiina Sikanen, University of Helsinki, Finland	16:10
16:50		Advancing artificial intelligence tools in drug formulation development Brendan Griffin, Univeristy of Cork, Ireland	16:50
	17:30 - 19:00 ResearchPharm® International Exhibition for R&D	Floor 0 & Floor 1: Welcome reception and ResearchPharm®	

	Floor 0 & Floor 1	Hall A	Hall F2	Hall M	Hall N	
	Poster session and ResearchPharm®	Invited talks: Excipients: innovation, regulation, sustainability	Invited talks: What's new in nanotechnology and drug targeting?	Short talks: Pharmaceutical manufacturing and engineering	Short talks: Advanced Drug Delivery Systems	
09:00	ResearchPharm® International Exhibition for R&D	Overview on sustainability supply of lipid-based excipient Laurent Schubnel	Harnessing Hyaluronic Acid-Conjugates for Improved Glioblastoma Local Immunotherapy Alessio Malfanti	Downstream processing and in vivo assessment of amorphous Abiraterone Acetate Dispersome® formulations Jumana Merchant	Enkephalins and enkephalinase inhibitors in squalene nanoparticles: a synergistic approach for chronic pain treatment Lucas Prades	09:00
09:20	Bioavailability, absorption enhancement and in-vitro/In-vivo correlations			Microdynamic flowability: a novel approach to powder flow analysis David Blanco	Electrospun nanofibers for ocular drug delivery Finnya Nienau	09:20
09:40	Controlled drug delivery	Hilopro - a high concentration, low viscosity, subcutaneous mAb delivery platform Sathyabalan Murugesan	Langerhans cell targeting via the skin for immune modulation Robert Wawrzinek	Potentialities of lipid-based microspheres and microcapsules obtained by prilling in the field of personalized dosing Claire Delmas	Expandable gastroretentive system for effective management of diabetes Marco Uboldi	09:40
10:00	Excipients and raw materials			FDmix - a flow-optimized nanoparticle manufacturing platform across all flow ranges Bernhard Bobusch	3D Printed dual-mechanism drug delivery device: merging convection-enhanced and iontophoretic delivery methods Hanxiang Li	10:00
10:20	Gene and advances therapy products			Fill finish operation and protein aggregation - what can we learn from a small scale? Milica Stankovic-Brandl	Injectable thermosensitive hydrogel for local and controlled delivery of siRNA polyplexes to ovarian cancer ascites Cristina Casadidio	10:20
10:40	Oral delivery	Development of excipient monographs from a manufacturer's perspective Michael Radius	Extracellular vesicles for drug delivery Florence Gazeau	Process characterization of freezing and thawing in drug substance bottles – a case study Sarah Peláez	Enzyme-responsive NPs: Enhancing endolysins' ability to eradicate Staphylococcus aureus biofilm Mariana Blanco Massani	10:40
	Parenteral delivery					
	Pediatric and geriatric drug delivery and gender medicine					
	Physical pharmacy and preformulation					
	Late breaking abstracts					
	11:00 - 11:30 Floor 0 & Floor 1: Coffee break with poster session and ResearchPharm®					
	Hall A 11:30 - 12:00	APV Award session				
	Hall A 12:00 - 13:00	Plenary lecture: 3D-Bioprinted cancer models for target discovery, drug development, and personalized therapy Ronit Satchi-Fainaro, Cancer Biology Research Center, Tel Aviv University, Israel				
	13:00 - 15:00 Floor 0 & Floor 1: Lunch break with poster session, exhibitor talks and ResearchPharm®					
	Floor 0 & Floor 1	Hall A	Hall F2	Hall M	Hall N	
	Poster session and ResearchPharm®	Invited talks: Innovative manufacturing procedures	Invited talks: Delivery of proteins and peptides	Short talks: Modelling and simulation Continuous manufacturing	Short talks: Nanoparticles and Vesicles I	
15:00	ResearchPharm® International Exhibition for R&D	End-to-end mechanistic and hybrid models of integrated and continuous pharmaceutical manufacturing processes Christian Glaser	Development of inhaled proteins Nathalie Heuzé-Vourc'h	Molecular dynamics simulations of drugs solubilization into mixed bile salt/phospholipid micelles Fatmegyl Mustan	Innovative siRNA-based lipid nanoparticles decorated with PEG alternatives (PNVP and PNMVA) to circumvent dilemma and immunogenicity Manon Berger	15:00
15:20	Bioavailability, absorption enhancement and in-vitro/In-vivo correlations			Machine Learning-Assisted System of Models for Optimization of Directly Compressed Tablets Development Processes Mohammad Salehian	Ovarian accumulation of nanosized drug delivery systems – what matters? Henrike Lucas	15:20
15:40	Controlled drug delivery	3D Printing for advanced drug delivery Atheer Awad	Stability of antibody drugs on the rocky road from the hospital pharmacy to the oncology ward Hristo Svilenov	CFD modeling of the hydrodynamics in the flow-through dissolution apparatus (USP 4) Pracha Bunyawanichakul	Structural Insights, Uptake Mechanisms and Stability of Nanostructured Lipid Carriers for Advanced Drug Delivery Ramona Jeitler	15:40
16:00	Excipients and raw materials			Novel Concepts for Processing an Automation of Pharmaceutical End-to-End Manufacturing Lisa Kuchler	Mucosa penetrating peptide functionalized liposomes for local drug delivery to the esophagous Silvia Franzè	16:00
16:20	Gene and advances therapy products	Digital pharmaceuticals – case studies of how it can support formulation development Martin Kuentz	The boon and bane of polysorbate 20/80 for protein formulations: current status Patrick Garidel	Integrated continuous twin-screw granulation - process investigation, scale-up and monitoring with artificial neural network-based soft sensors Petra Záhonyi	Controlling PEG-b-PTMC polymersome size through microfluidic-assisted self-assembly: advancing the understanding of polymersomes self-assembly mechanisms Angela Mutschler	16:20
16:40	Oral delivery			Evaluating the benefits of continuous wet granulation process, not requiring a subsequent drying step Thorsten Cech	Cholesterol-Modified Hyaluronic Acid Nanogels for Solubility Enhancement and Sustained Release Yoshiyuki Nakagawa	16:40
	Parenteral delivery					
	Pediatric and geriatric drug delivery and gender medicine					
	Physical pharmacy and preformulation					
	Late breaking abstracts					

WEDNESDAY, 20 MARCH 2024


	Floor 0 & Floor 1	Hall A	Hall F2	Hall M	Hall N	
	Poster session and ResearchPharm®	Invited talks: Innovations in oral drug delivery	Invited talks: Parenteral controlled drug delivery	Short talks: Paediatric drug delivery Excipients and raw materials	Short talks: Physical pharmacy and preformulation Quality control and PAT	
09:00	 ResearchPharm® International Exhibition for R&D	Amorphous solid dispersion release mechanisms Lynne Taylor	Noninvasive in vitro and in vivo monitoring of parenteral controlled release DDS Karsten Maeder	Hazle-Free Pediatric Pain Treatment via Personalized Inkjet-Printed Temporary Tattoos Martin Spörk	The enigmatic world of hydrochlorothiazide: polymorphs and their phase interconversions Inês Martins	09:00
09:20	2D/3D printing Buccal and nasal delivery			Towards a standard vehicle toolbox: development and verification of standard vehicles for compatibility studies with oral paediatric drug products Carolin Eckert	Development of an oral liquid formulation of ONC201 to limit its degradation and increase its aqueous solubility Maxime Annereau	09:20
09:40	Microbioma and drug delivery Miscellaneous Packaging	Oral delivery of systemic monoclonal antibodies, peptides and small molecules using gastric auto-injectors Alex Abramson	Changing the rules in the tumor microenvironment. Developing and delivering nanoparticle catalysts to growing tumors Jesús Santamaría Ramiro	Development of an oral solution of vinorelbine to protect the oral mucosa during paediatric administration François Xavier Legrand	Nucleation of celecoxib glass: Determination of nucleation temperature and impact of nuclei on dissolution/physical stability performances Kohsaku Kawakami	09:40
10:00	Pharmaceutical manufacturing and engineering Protein formulation Pulmonary delivery			Suitability study on microcrystalline cellulose for tablets containing pressure-sensitive substances Tomohisa Fujisawa	Real-time particle size measurement during fluidized bed processes using a convolutional neural network-based endoscopic imaging system Orsolya Péterfi	10:00
10:20	Late breaking abstracts	Oral delivery and intestinal targeting of therapeutic nucleic acids Caitriona O'Driscoll	Injectable hydrogels for ocular drug delivery Tina Vermonden	A nitrosamine calculation tool to support risk mitigation Sara Fathollahi	Digital Real-time Release Testing in Continuous Tablet Production Lines Selma Celikovic	10:20
10:40				Croscarmellose-sodium as pelletization aid - the role of multivalent cations Finn Siebel	Influences of process parameters on the wet film thickness in continuous manufacturing of oral films Leonie-Lara Dorothea Uth	10:40
11:00 - 11:30 Floor 0 & Floor 1: Coffee break with poster session and ResearchPharm®						
Hall A	11:30 - 12:00	APGI Award: Marie Maurice Janot Award				
Hall A	12:00 - 13:00	Plenary lecture: Observations which might inspire drug delivery scientists for guiding bio-therapeutics over biological barriers Stefaan de Smedt, University of Ghent, Belgium				
13:00 - 15:00 Floor 0 & Floor 1: Lunch break with poster session, exhibitor talks and ResearchPharm®						
	Floor 0 & Floor 1	Hall A	Hall F2	Hall M	Hall N	
	Poster session and ResearchPharm®	Invited talks: Continuous manufacturing & PAT	Invited talks: Cell therapies	Short talks: Bioavailability, absorption enhancement and in-vitro/in-vivo correlations Topical and transdermal delivery	Short talks: Nanoparticles and Vesicles II	
15:00	 ResearchPharm® International Exhibition for R&D	Continuous Manufacturing of Oral Solid Dosage Forms: what's next? Bart Nitert	ATMPs on the move: overview and regulatory perspective Ralf Sanzenbacher	Dissolution vs Solubility Mismatch in Intestinal Buffer Jozef Al-Gousous	Biomimetic vesicles for glioblastoma treatment Giorgia Ailuno	15:00
15:20	2D/3D printing			Novel simulated interstitial fluid media for predictive subcutaneous in vitro assays Iria Torres Terán	Harnessing the potential of tissue-derived extracellular vesicle therapy for precision regenerative medicine Peng Lou	15:20
15:40	Buccal and nasal delivery Microbioma and drug delivery Miscellaneous	Innovative continuous pharmaceutical technologies supported by AI and machine vision Zsombor Kristóf Nagy	Ex vivo CAR-T cell concept & regulatory considerations Sergio Fracchia	In vitro Dissolution/Permeation tools to forecast ASDs bioavailability: comparison and mechanistic insights Patricia D. Nunes	A novel multidrug nanoparticle formulation assessment in a cardiac ischemia reperfusion model Natalie Lan Linh Tran	15:40
16:00	Packaging Pharmaceutical manufacturing and engineering Protein formulation			Design of a novel PVA/PVP/PEGdiacid-based hydrogel-forming microneedle array patches for enhanced and sustained transdermal delivery of enfuvirtide Huanhuan Li	Reproducible synthesis of biocompatible albumin nanoparticles designed for intra-articular delivery of celecoxib to treat osteoarthritis Rumi Khandelia	16:00
16:20	Pulmonary delivery Late breaking abstracts	CPV 4.0: An industrial app to enhance the CPV (Continuous Process Verification) Marc Ramoneda	In vitro and in vivo delivery kinetics of ionizable lipid nanoparticles encapsulating TNF-α siRNA and their efficacy on inflammatory models Qinglin Wang	Thermotropic liquid crystals: an intelligent strategy for skin drug delivery Mariia Nesterkina	Microfluidic development of biomimetic hybrid nanoparticles for homologous-targeting and enhanced therapy of cancer Ilaria Arduino	16:20
16:40			Anti-miRNA103/107 lipid nanoparticles for the treatment of brain ischemic damage Virginia Campani	Novel method for testing antimicrobial effectiveness of local drug-delivery systems Kelli Randmäe	Antioxidant-based nanoparticles protect against intracellular reactive oxygen species in neurological disorders Thelma Akanchise	16:40

	Floor 0 & Floor 1	Hall A	Hall F2	Hall M	Hall N	
	Poster session and ResearchPharm®	Invited talks: Nucleic acid based drugs and vaccines	Invited talks: Local drug delivery	Short talks: 2D/3D printing	Short talks: Oral delivery In vitro and In vivo assessment of oral dosage forms	
09:00	 International Exhibition for R&D	Targeted lipid nanoparticles with RNAs are going beyond the liver: from vaccines to therapeutic genome editing Dan Peer	Drug targeting to the esophagus Christoph Rosenbaum	Development of a 3D-printed poly pill for breast cancer management Lucas Denis	Unexpected release behavior of copovidone-based ASDs Dominik Borrmann	09:00
09:20	Advanced drug delivery systems			Free-d Molding - Every Idea Deserves a Prototype Daniel Treffer	Solubility enhancement of PROTACs via Spray drying with Polyvinyl alcohol Lena Marezek	09:20
09:40	Continuous manufacturing	mRNA drugs: an industrial perspective Carla Atallah	Recent advances in drug-releasing vaginal rings Karl Malcolm	Development of an enteric (delayed-release) formulation for semi-solid extrusion 3D printing Kristiine Roostar	Exploring oral device-based in situ amorphization of poorly soluble small molecule drugs Maria Pereverzina	09:40
10:00	Green and sustainable pharma			Combining two different 3D printing processes for the production of Donepezil-coated microneedle arrays Paraskevi Kyriaki Monou	Visualisation of the "Magenstrasse" using Realtime Magnetic Resonance Imaging Linus Großmann	10:00
10:20	Nanoparticles and vesicles	Extrahepatic delivery of siRNA, a theranostic approach Ick Chan Kwon	Nanofibers as a local delivery system for vaginal probiotics Spase Stojanov	Development of 3D printed bioadhesive films containing different types of propolis extractive solutions Marcos Luciano Bruschi	Device for simultaneous dissolution and permeation measurement David Zuzá	10:20
10:40	Quality control and PAT		Contact lenses that self-generate gold nanoparticles for light filters and photothermal therapy Carmen Alvarez-Lorenzo	Direct extrusion of cyclodextrin-based powders to produce customized pharmaceutical dosage forms by 3D printing Nunzio Denora	Impact of stabilizers in solid nanocrystal formulations on particle size and dispersion behavior in biorelevant media Julius Sundermann	10:40

11:00 - 11:30 Floor 0 & Floor 1: Coffee break with poster session and ResearchPharm®

Hall A	11:30 - 12:00	SITELF Award session: International SITELF Award 2024
Hall A	12:00 - 13:00	Plenary lecture: Hyaluronic acid in targeted drug delivery. What we understand, what we do not understand, and what we do not even know we do not understand Nicola Tirelli, Italian Institute of Technology, Italy

13:00 - 15:00 Floor 0 & Floor 1: Lunch break with poster session, exhibitor talks and ResearchPharm®

	Floor 0 & Floor 1	Hall A	Hall F2	Hall M	Hall N	
	Poster session and ResearchPharm®	Invited talks: Patient-focused drug delivery	Invited talks: Bio-barriers and alternative routes of administration	Short talks: Controlled drug delivery Buccal and nasal and pulmonary delivery	Short talks: Parenteral Delivery Protein formulations	
15:00	 International Exhibition for R&D	Why and how introduce patient centered approaches in pharmaceutical product development Leonie Wagner	Oral delivery strategies based on nanoparticles for biologics Juan M. Trache	Subcutaneous long-acting risperidone implants for schizophrenia treatment Eneko Larraneta	Release of insulins using IVR cartridge as model for subcutaneous tissue: medium effects and albumin binding Jesper Ostergaard	15:00
15:20	Advanced drug delivery systems			HA-Glucose, a hyaluronan-based hydrogel to feed mesenchymal stem cells delivered for osteoarthritis therapy Paula Gonzalez Fernandez	Novel thermo-sensitive oleogels as long acting injectables for the delivery of hydrophilic drugs Valeria Tamburrini	15:20
15:40	Continuous manufacturing	Filling the deltas in patient-centric drug development Sven Stegemann	The impact of lung epithelial transporters on pulmonary drug delivery Carsten Ehrhardt	Thermosensitive in situ gelling poloxamers/hyaluronic acid gels for ocular delivery Laura Mayol	Exploring bottom-up approaches towards long-acting injectable suspensions Sarah Hudson	15:40
16:00	Green and sustainable pharma			Intranasal nose-to-brain delivery of a monoclonal antibody with a controlled release drug delivery system: proof-of-concept and pharmacokinetic studies in mini pigs Katharina Schindowski Zimmermann	A versatile platform for orthogonal analysis of protein physical stability in multiwell plates Michaela Cohrs	16:00
16:20	Nanoparticles and vesicles	Automated Medication Management: Empowering Adherence through "Robo-Pharmacist" Technology Erik Sonntag	Nasal delivery for effects in the brain: it works Ben Forbes	Combining microneedles with electrospun mucoadhesive patches to improve buccal transmucosal drug delivery Cerys Evans	Single-Step Freeze-Drying of Protein Formulations Elena Richert	16:20
16:40	Quality control and PAT	3D printing of personalized medicines in a hospital setting for children affected by rare metabolic disorders Paola Carou-Senra		RN Hale - a dry powder platform technology for Pulmonary RNA delivery Leonie Deßloch	The Viscosity Reduction Platform: Enabling High-concentration and Low-viscosity Protein Formulations Can Araman	16:40
16:40	Stability testing					
16:40	Topical and transdermal delivery					
16:40	Late breaking abstracts					